

AMENDMENTS TO THE CLAIMS

1. **(Withdrawn)** A purified and isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising the amino acid sequence shown in SEQ ID NO:2 of Figure 7.

2. **(Withdrawn)** A purified and isolated nucleic acid comprising a nucleotide sequence shown in SEQ ID NO:1 of Figure 7.

3. **(Withdrawn)** A purified and isolated nucleic acid comprising a recombinant nucleotide sequence comprising a nucleotide sequence shown in SEQ ID NO:1 of Figure 7 or a homolog or fragment thereof.

4. **(Withdrawn)** An expression construct comprising the nucleic acid according to claim 2 operatively linked to an expression control sequence, said expression construct capable of encoding a MANF2 polypeptide or variants thereof.

5. **(Withdrawn)** A host cell transformed or transfected with the expression construct of claim 4.

6. **(Withdrawn)** A host cell transformed or transfected with a polynucleotide wherein said polynucleotide includes a strand containing a human nucleotide sequence that hybridizes to a DNA comprising the non-coding strand complementary to SEQ ID NO:1 of Figure 7, under the following hybridization conditions:

(a) hybridization at 42 °C for 20 hours in a solution containing 50% formamide, 5 X SSPE, 5 X Denhardt's solution, 0.1% SDS and 0.1 mg/ml denatured salmon sperm DNA;

and

(b) washing the filter twice for thirty minutes at room temperature and twice for thirty minutes at 65 °C with a wash solution containing 1xSSC, and 0.1% SDS.

7. **(Currently Amended)** An isolated and purified MANF2 polypeptide comprising amino acids 27-187 of the amino acid sequence of SEQ ID NO:2 ~~of Figure 7~~.

8. **(Currently Amended)** ~~A Method~~ method of producing a MANF2 polypeptide according to claim 7, said method comprising ~~the steps of:~~

culturing a host cell ~~of claim 5~~ comprising a polynucleotide encoding said polypeptide operably associated with a promoter sequence such that the nucleic acid sequence encoding said polypeptide is expressed; and

isolating said polypeptide from said host cell or from a growth medium in which said host cell is cultured.

9. **(Withdrawn)** Method of producing antibodies comprising:

- immunising a mammal with the isolated and purified MANF2 protein of claim 7 or an antigenic fragment thereof.

10. - 26. (Cancelled)

27. **(New)** The isolated and purified MANF2 polypeptide of claim 7, which comprises the entire sequence of SEQ ID NO:2.

28. **(New)** The isolated and purified MANF2 polypeptide of claim 7, which consists of amino acids 27-187 of the amino acid sequence of SEQ ID NO:2

29. **(New)** A method of producing a MANF2 polypeptide according to claim 27, said method comprising:

culturing a host cell comprising a polynucleotide encoding said polypeptide operably associated with a promoter sequence such that the nucleic acid sequence encoding said polypeptide is expressed; and

isolating said polypeptide from said host cell or from a growth medium in which said host cell is cultured.

30. **(New)** A method of producing a MANF2 polypeptide according to claim 28, said method comprising:

culturing a host cell comprising a polynucleotide encoding said polypeptide operably associated with a promoter sequence such that the nucleic acid sequence encoding said polypeptide is expressed; and

isolating said polypeptide from said host cell or from a growth medium in which said host cell is cultured.